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APPLICATION NO. FILT		ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/764,999 01/26/2004		1/26/2004	Yuwa Tanaka	105-81	6763
23869	7590	09/02/2005		EXAMINER	
HOFFMAN 6900 JERICH		•	LEPISTO, RYAN A		
SYOSSET, N				ART UNIT	PAPER NUMBER
ŕ				2883	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M. Comment				
•	Application No.	Applicant(s)	*11.				
000 4-41 0	10/764,999	TANAKA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ryan Lepisto	2883					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the provided of the pr	136(a). In no event, however, may a rep by within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH by cause the application to become ABAT	ly be timely filed (30) days will be considered timely. IS from the mailing date of this cor NDONED (35 U.S.C. § 133).	nmunication.				
Status							
1) Responsive to communication(s) filed on 27 N	<u>lay 2004</u> .						
•	s action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	_x parte Quayle, 1935 O.D.	11, 433 O.G. 213.					
<u> </u>							
4) Claim(s) 1-12 is/are pending in the application							
4a) Of the above claim(s) is/are withdra	wn from consideration.	,					
5) Claim(s) is/are allowed.							
6) Claim(s) 1-12 is/are rejected.							
7) Claim(s) is/are objected to.	or alastian requirement						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine							
10)⊠ The drawing(s) filed on <u>26 January 2004</u> is/are	∷ a)⊠ accepted or b)⊡ obj	ected to by the Examine	r.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is objected to. See 37 CFF	₹ 1.121(d).				
11) ☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached (Office Action or form PTC	D-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Aporty documents have been re u (PCT Rule 17.2(a)).	plication No eceived in this National S	stage				
Attachment(s)							
1) Notice of References Cited (PTO-892)		mmary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Mail Date ormal Patent Application (PTO-	152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1/04</u>. 	6) Other:		102)				

DETAILED ACTION

Specification .

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Burkholder et al (US 2001/0048790 A1) (Burkholder). Burkholder teaches an optical connector (11) comprising a housing (10) formed with two opening (1, 12) at each end from inserting a connector and a mating receptacle connector in each side respectfully, a shielded flange (29) that the housing and connectors are inserted into along with various other components being shielded (paragraphs 0024-0025), a shutter unit (part of 10) comprising a main section (part of 11) with a window for orienting and confining (four walls extending in four different directions) connectors, a plurality of tongue leaf shaped shutter leaves (13, 14) with respective light interception plate portions (surfaces

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of the shutters) linked and projecting into to the main section in the interior of the housing (10) to intercept light emitted from a fiber in the closed overlapping position (Fig. 1b) and are able to be rotated about linking sections (31) so the shutter leaves (13, 14) and plate portions are swung forward and lie against the main section walls to allow the connector and receptacle to be connected and wherein when the connectors are removed, resilient leaf springs (15) bias the shutter leaves (13, 14) back to the closed position.

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3. Claims 10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Roth (US 6,076,975). Roth teaches an optical connector (Figs. 1-2) comprising a connector housing (Fig. 1) with two ends with respective holes for receiving a connector and receptacle connector, a shutter unit (44) for intercepting light when in the closed position, an inner piece (38) having engagement claws (non labeled, interior of the opening of 38 near reference numeral 48 shown in Fig. 2 see the flange, similarly shaped to applicant's claw, 14f of Fig. 6) with projections that engage with a connector (Fig. 14, part comprising 114) and the connectors mating grooves (114) on both sides of the connector.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roth as applied to claims 10 and 12 above, and further in view of Burkholder.

Roth teaches the connector with shutter described above.

Roth does not teach expressly the inner piece being made of a shielded material.

Burkholder teaches that it is regular practice in the art to use conductive material in optical connectors for electro-magnetic interference protection.

Roth and Burkholder are analogous art because they are from the same field of endeavor, optical connectors comprising shutters.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use conductive materials as taught by Burkholder to create the inner piece as taught by Roth.

The motivation for doing so would have been increase efficiency of an optical signal transmitted by using materials that offer EMI protection (Burkholder, paragraph 0025).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Note the Roth reference from above also anticipates claims 1, 3-4 and 6-9.
 - All of the following teach optical connectors equipped with shutters: Logan et al (US 4,673,242), Ishikawa (US 5,104,242), Mulholland et al (US 5,142,597),

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Beard et al (US 5,317,663), Baldwin et al (US 5,329,604), Marazzi et al (US 5,348,487), Marazzi et al (US 5,363,460), Chou et al (US 5,570,445), Yamaji et al (US 5,708,745), Masuda et al (US 5,716,224), Evans et al (US 5,802,229), De Marchi (US 5,845,036), Lu (US 5,883,995), Clairardin et al (US 5,915,058), Abendschein et al (US 6,004,043), Roth et al (US 6,081,647), Roth (US 6,108,482), Hall, III et al (US 6,206,577 B1), Selfridge et al (US 6,264,374 B1), Zullig (US 6,302,592 B1), Grois et al (US 6,331,079 B1), Yoshida et al (US 6,340,246 B1), Shimoji et al (US 6,352,375 B1), Matasek et al (US 6,361,218 B1), Chen et al (US 6,371,657 B1), Chen et al (US 6,406,192 B1), Fujiwara et al (US 6,425,692 B1), Iwase (US 6,461,054 B1), Bekenkiy et al (US 6,471,412 B1), Takaoka et al (US 6,481,902 B2), Matasek et al (US 6,554,482 B1), Zellak (US 6,595,696 B1), Burkholder et al (US 6,685,362 B2), Duran (US 6,688,780 B2), Seo et al (US 2004/0052473 A1), Tanaka et al (US 6,866,424 B2), McBride (US 6,715,930 B2), Fujiwara et al (US 6,755,574 B2), Szilagyi et al (US 6,764,222 B1), Zhu et al (US 6,796,719 B2), Ohbayahshi et al (US 6,845,210 B2), Tanaka et al (US 6,866,424 B2).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-F 7:30AM-5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

Frank Font

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Supervisory Patent Examiner

Frank & Fort

Date: 8/8/05

Technology Center 2800